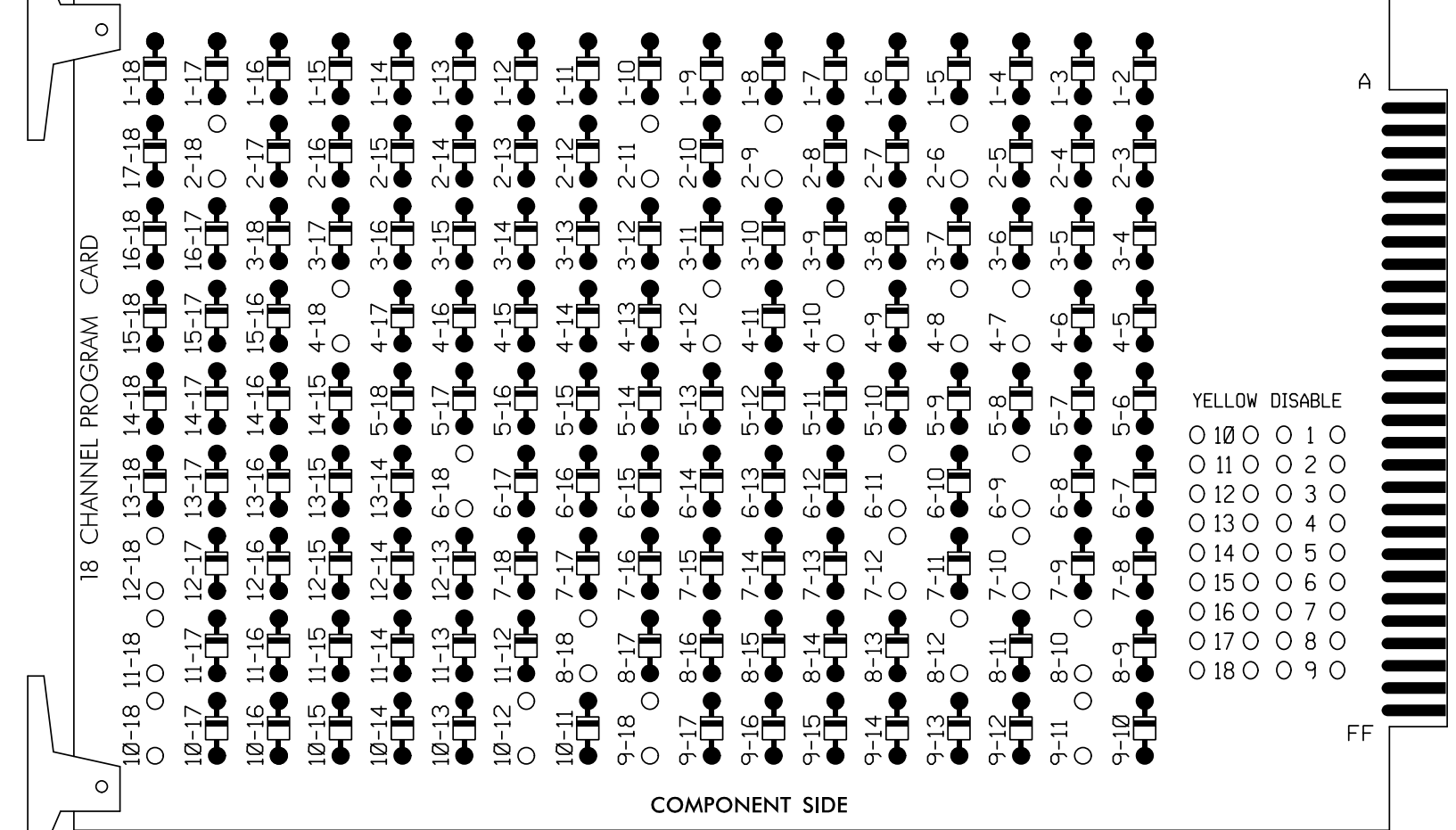


**EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)

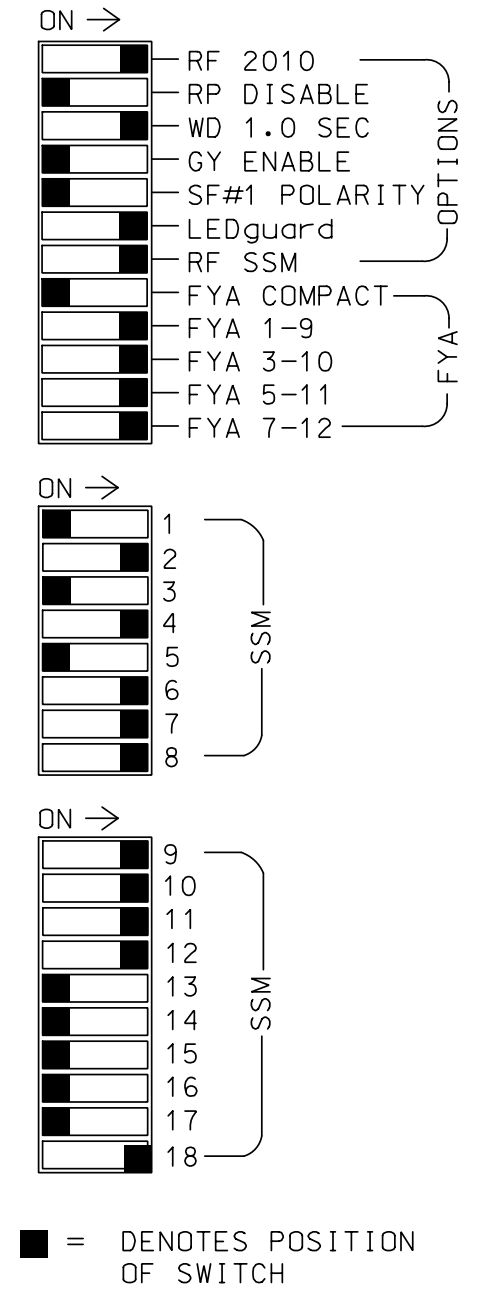
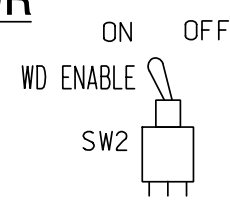
REMOVE DIODE JUMPERS: 2-6, 2-9, 2-11, 2-18, 4-7, 4-8, 4-10, 4-12, 4-18, 6-9, 6-11, 6-18, 7-10, 7-12, 8-10, 8-12, 8-18, 9-11, 9-18, 10-12, 10-18, 11-18 and 12-18



REMOVE JUMPERS AS SHOWN

**NOTES:**

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
- Ensure that Red Enable is active at all times during normal operation.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



**NOTES**

- To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Startup In Green.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S2,S5,S8,S9\*\*,S10,S11,AUX S1,AUX S2,  
 AUX S4,AUX S5,AUX S6  
 PHASES USED.....2,4,6,6PED,7\*,8  
 OVERLAP "A".....2  
 OVERLAP "B".....4  
 OVERLAP "C".....6  
 OVERLAP "D".....7+8  
 OVERLAP "F".....2,4,6,8  
 \* PHASE 7 USED ONLY DURING PREEMPT  
 \*\* USED FOR EV PILOT LAMP

**SIGNAL HEAD HOOK-UP CHART**

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6	
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18	
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	OLF	
SIGNAL HEAD NO.	NU	22,23	NU	NU	42,43	NU	NU	62,63	PILOT LAMP	41	91	82,83	NU	61	81	NU	21	41	44,45 46,47
RED		128			101			134			122	107							A104
YELLOW		129			102			135	** #		123	108							A105
GREEN		130			103			136			124	109							
RED ARROW																A121	A124	A114	A101
YELLOW ARROW																A122	A125	A115	A102
FLASHING YELLOW ARROW																A123	A126	A116	A103
GREEN ARROW																			

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 # See pictorial of head wiring in detail this sheet.  
 # Denotes 6 PED YELLOW used for pilot lamp operation. See sheet 3 for wiring detail.

**INPUT FILE POSITION LAYOUT (front view)**

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	FS	2A	2C	FS	FS	4A	4C	FS	FS	FS	FS	FS	FS	FS
L	2B	NOT USED	FS	FS	4B	NOT USED	FS	FS	FS	FS	FS	FS	FS	FS
U	6A	6C	FS	FS	8A	8C	FS	FS	FS	FS	FS	FS	FS	FS
L	6B	NOT USED	FS	FS	8B	NOT USED	FS	FS	FS	FS	FS	FS	FS	FS

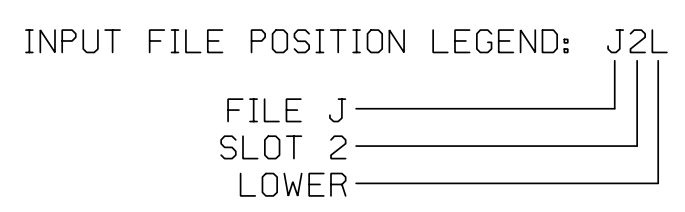
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME  
 PRE = PREEMPT

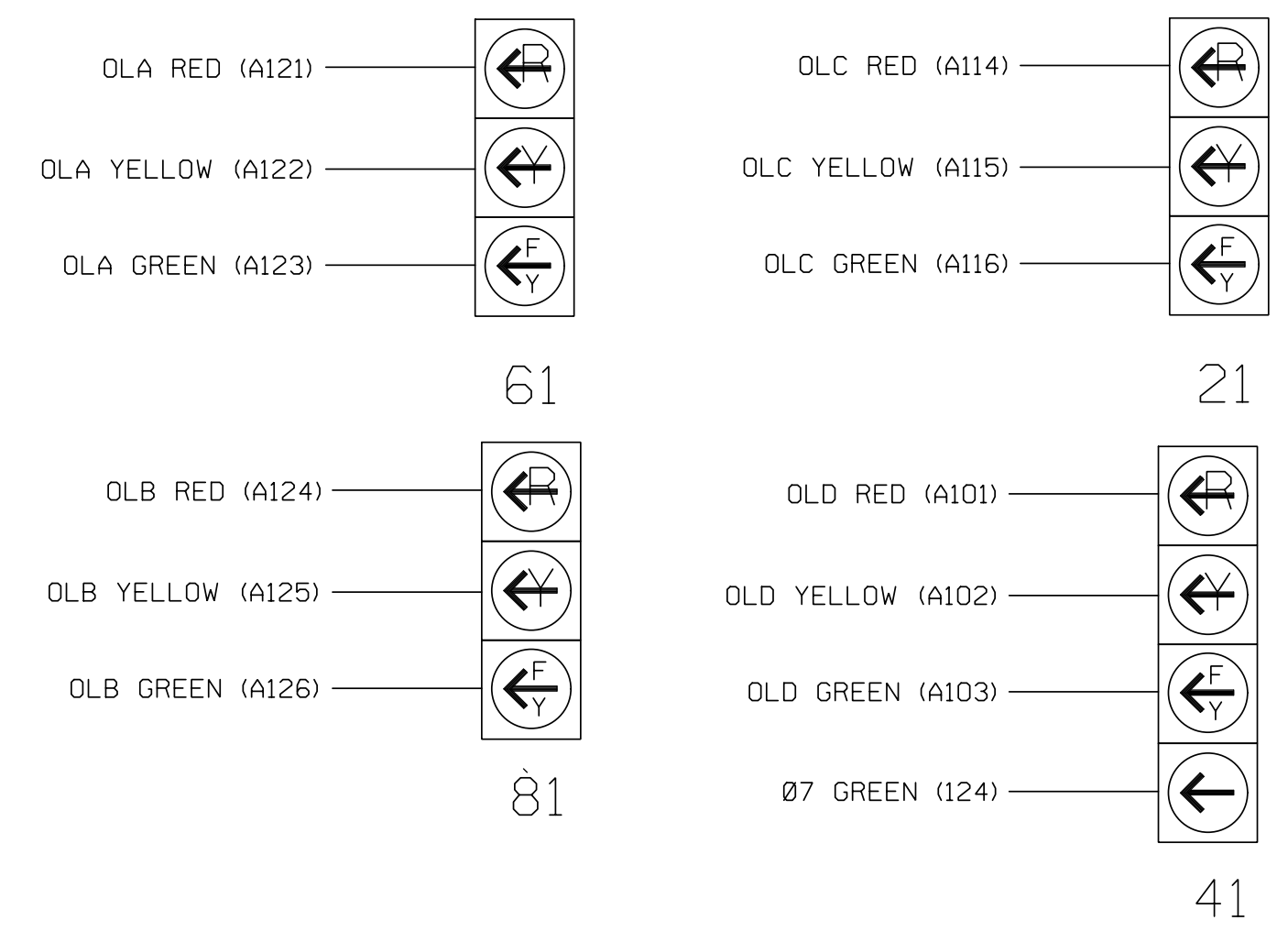
**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
2B	TB2-7,8	I2L	43	5	12	2	Y	Y			
2C	TB2-9,10	I3U	63	25	32	2	Y	Y	Y		3
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			3
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			10
4C	TB6-1,2	I7U	65	27	34	4	Y	Y			15
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			
6B	TB3-7,8	J2L	44	6	16	6	Y	Y			
6C	TB3-9,10	J3U	64	26	36	6	Y	Y	Y		3
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			3
8B	TB5-11,12	J6L	46	8	18	8	Y	Y			10
8C	TB7-1,2	J7U	66	28	38	8	Y	Y			15

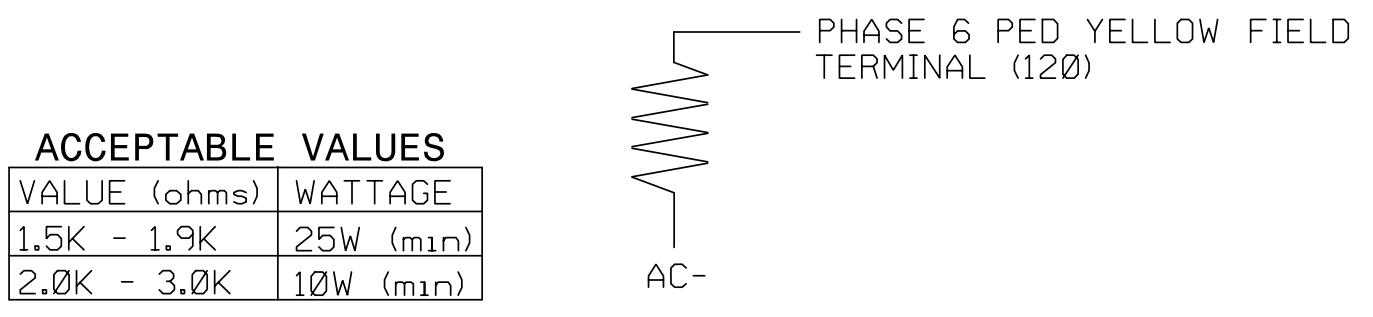
1 Add jumper from J5-W to I8-W, on rear of input file.



**FYA SIGNAL WIRING DETAIL (wire signal heads as shown)**



**LOAD RESISTOR INSTALLATION DETAIL (install resistor as shown below)**



VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-1435  
 DESIGNED: FEBRUARY 2018  
 SEALED: 6/12/2018  
 REVISED: N/A

Electrical Detail - Sheet 1 of 4

PLANS PREPARED IN THE OFFICE OF:  
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 NC 125  
 AT  
 AMERICAN LEGION ROAD

DIVISION 4 HALIFAX COUNTY ROANOKE RAPIDS  
 PLAN DATE: FEBRUARY 2018 REVIEWED BY: SL PHILLIPS  
 PREPARED BY: SP PENNINGTON REVIEWED BY:  
 REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  

 SEAL 032607  
 ENGINEER  
 STACIE L. PHILLIPS

DocuSigned by:  
 Stacie L. Phillips  
 003745920608437  
 SIGNATURE DATE  
 6/12/2018

SIG. INVENTORY NO. 04-1435